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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Application or bocket Humber PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-678 APPLICATION AS FILED - FART I OTHER THAN (Column 1) SMALL ENTITY OR SMALL ENTITY (Column 2) FOR HUMBER FILED NUMBÉR EXTRA RATE (1) FEE (I) BASIC FEE RATE (8) (07 CFR 1.16(0), (b), or (ch) 20 U SEARCH FEE (ST CFR 1.1604, (), or (时) 200 **EXAMINATION FEE** (87 CFR 1.16(0), (P), OF (0)) 400 TOTAL CLAIMS (87 CFR L18(1)) minus 20 = 50-OR INDEPENDENT CLAIMS (87 CFR 1.1800) x 100 minus = x 200 = If the specification and drawings exceed 100 APPLICATION SIZE sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each FEB (37 CFR 1.16(a)) additional 50 sheets or fraction thereof. See 85 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). MULTIPLE DEPENDENT CLAIM PRESENT (57 CFR 1.16(1)) &U 36 U \* if the difference in column 1 is less than zero, enter "O" in column 2. TOTAL TOTAL APPLICATION AS AMENDED - PART II OTHER THAN (Column 1) (Column 2) (Column 3) OR SMALL ENTITY SMALL ENTITY CLAIMS HIGHEST REMAINING RESENT RATE (#) NUMBER ADD) PATE (#) ADD)-AFTER 7-05 PREVIOUSLY EXTRA TIONAL 岩 TIONAL WENDMENT PAID FOR FEE (#) FEE (1) Total Mireu AT OFR LINGS J)() X OR: X Independent D7 CFR 1.160 Minus 面 x OR Application Size Fee (37 CFR 1.16(s)) FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (ST CFR 1.180)) OR TOTAL TOTAL ADD'L FEE ADO'L FEE OR (Column 1) (Column 2) (Column 3) CLAIMS HIGHEST REMAINING **PRESENT** B NUMBER RATE (8) ADOL RATE (\$) ADDI-AFTER PREVIOUSLY EXTRA TIONAL FEE (8) TIONAL MENDMENT PAID FOR FEE (4) ă Total Minus X OR ' x Independent Of OFR LINES Moute ¥ • OR Son Stre Fee (87 CFR 1.16(a)) FIRST PRESENTATION OF MULTIPLE DEPENDENT CLASM (ST CFR 1.100) OR TOTAL TOTAL ADD'L FEE OR ADDYL FEE • If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

• If the "Highest Number Previously Paid For" in THIS SPACE is less than 20, enter "20".

• If the "Highest Number Previously Paid For" in THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or independent) is the highest number found in the appropriate box in column 1.

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This collection of information is required by 37 CFR 1.16. The information is negated to obtain or retain a benefit by the public which is to tile (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Thus will vary depending upon the individual case, Any comments on he amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.D. Box 1450, Alexandria, VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.